

## CLAIMS:

1. A high-pressure discharge lamp provided with a discharge vessel (10) with a ceramic wall (1) which is closed at one end by a plug (2) provided with an electrode (3) arranged in the discharge vessel,

the ceramic wall (1) and the plug (2) being jointed by a fusion joint (4),

5 characterized in that

the fusion joint (4) comprises an alloy comprising substantially molybdenum and aluminum.

2. A high-pressure discharge lamp as claimed in claim 1, characterized in that the  
10 fusion joint (4) comprises at least 25 atom percent Mo.

3. A high-pressure discharge lamp as claimed in claim 2, characterized in that the fusion joint (4) comprises a material selected from the group formed by  $\text{Al}_8\text{Mo}_3$ ,  $\text{Al}_{63}\text{Mo}_{37}$ ,  $\text{Al}_{63}\text{Mo}_{37}$ ,  $\text{AlMo}$ ,  $\text{AlMo}_3$  and combinations of said materials.

15

4. A high-pressure discharge lamp as claimed in claim 1 or 2, characterized in that the plug (2) comprises a material selected from the group formed by molybdenum, tungsten and combinations of said materials.

20 5. A high-pressure discharge lamp as claimed in claim 1, characterized in that the ceramic wall (1) comprises aluminum nitride.

6. A high-pressure discharge lamp as claimed in claim 1 or 2, characterized in that the lamp is a metal halide lamp.

25

7. A high-pressure discharge lamp as claimed in claim 1 or 2, characterized in that the lamp has a power rating of at least 100 W.